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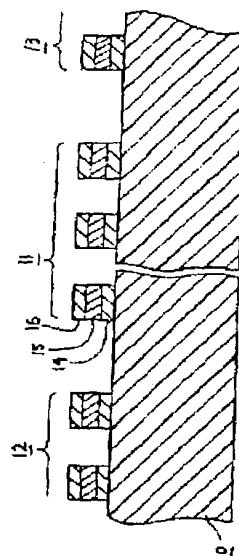
APPLICATION DATE : 20-01-86
APPLICATION NUMBER : 61009688

APPLICANT : VICTOR CO OF JAPAN LTD;

INVENTOR : NOZAKI ITARU;

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TITLE : SURFACE ACOUSTIC WAVE
RESONATOR



ABSTRACT : PURPOSE: To make the titled resonator small in size, and also, to easily manufacture it by forming an SAW exciting electrode by laminately successively and alternately a low density layer and a high density layer on the surface of a piezoelectric substrate, so that a good resonator characteristic can be obtained in a comparatively low frequency area of a VHF band.

CONSTITUTION: An SAW exciting electrode 11 and reflecting gratings 12, 13 constitute a three-layer structure by laminating successively and alternately an Al layer 14 being a low density layer L, and an Au layer 15 being a high density layer H, and an Al layer 16, on the surface of a piezoelectric substrate 10. The SAW exciting electrode 11 and the reflecting gratings 12, 13 are formed by, for instance, laminating successively and alternately the Al layer, the Au layer and the Al layer on the whole surface of the piezoelectric substrate 10, and bringing the same pattern as the SAW exciting electrode 11 and the reflecting gratings 12, 13 to, for instance, Ar ion milling against these three layers.

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